

This listing of claims will replace all prior versions, and listings, of claims in the application:

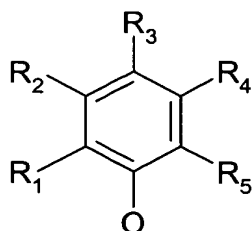
Listing of Claims:

Claim 1 (Currently Amended): A catalytic composition, obtained by mixing:

- at least one catalyst-forming chromium compound;
- with at least one aryloxy compound of an element M selected from the group consisting of magnesium, calcium, strontium and barium, with general formula $M(RO)_{2-n}X_n$, where RO is an aryloxy radical containing 6 to 80 carbon atoms, X is a halogen or a hydrocarbyl radical containing 1 to 30 carbon atoms and n is a whole number that ~~can take values of 0 to 2~~ is 0 or 1; and
- with at least one aluminum compound selected from the group consisting of ethylaluminum sesquichloride, tris(hydrocarbyl)aluminum compounds, ~~and~~ chlorinated and brominated hydrocarbylaluminum compounds, with general formula AlR'_mY_{3-m} , where R' is a hydrocarbyl radical containing 1 to 6 carbon atoms, Y is a chlorine or bromine atom and m is a number from 1 to 3, and aluminoxanes.

Claim 2 (Currently Amended): A composition according to claim 1, wherein the chromium compound comprises one or more identical or different anions selected from the group consisting of halides, carboxylates, acetylacetonates, ~~and~~ alkoxy and aryloxy anions.

Claim 3 (Currently Amended): A composition according to claim 1, ~~characterized in that~~ wherein the aryloxy radical RO in the aryloxy compound of element M with general formula $M(RO)_{2-n}X_n$ has general formula:



where R₁, R₂, R₃, R₄ and R₅, which may be identical or different, represent a hydrogen atom, a halogen atom or a hydrocarbyl radical containing 1 to 16 carbon atoms.

Claim 4 (Currently Amended): A composition according to claim 1, ~~characterized in that~~ wherein the aryloxy compound of element M is bis(2,6-diphenylphenoxy)magnesium, bis(2-tert-butyl-6-phenylphenoxy)magnesium or bis(2,4-di-tert-butyl-6-phenylphenoxy)magnesium.

Claim 5 (Currently Amended): A composition according to claim 1, ~~characterized in that~~ wherein the hydrocarbylaluminum compound is dichloroethylaluminum, ethylaluminum sesquichloride, chlorodiethylaluminum, chlorodiisobutylaluminum, triethylaluminum, tripropylaluminum, triisobutylaluminum or methylaluminoxane.

Claim 6 (Currently Amended): A composition according to claim 1, ~~characterized in that~~ wherein the hydrocarbylaluminum compound is triethylaluminum.

Claim 7 (Currently Amended): A composition according to claim 1, ~~characterized in that~~ wherein the components of the catalyst are brought into contact in a solvent comprising at least one saturated hydrocarbon, at least one unsaturated olefinic or diolefinic hydrocarbon and/or at least one aromatic hydrocarbon.

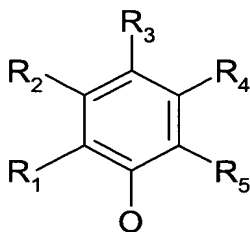
Claim 8 (Currently Amended): A composition according to ~~claim 1, characterized in that~~ claim 7, wherein the chromium concentration in the catalytic solution is in the range 1×10^{-5} to 0.1 mole/l.

Claim 9 (Currently Amended): A composition according to claim 1, ~~characterized in that~~ wherein the mole ratio between the aryloxy compound of element M and the chromium compound is 1:1 to 30:1, and the mole ratio between the hydrocarbylaluminum compound and the chromium compound is 1:1 to 35:1.

Claim 10 (Currently Amended): In a process ~~of comprising~~ oligomerizing ethylene in contact with a catalyst under oligomerizing conditions, the improvement wherein the catalyst is a catalytic composition according to claim 1.

Claim 11 (Currently Amended): A process according to claim 10, ~~characterized in that~~ wherein the ethylene oligomerization reaction is carried out at a pressure of 0.5 to 15 MPa and at a temperature of 20°C to 180°C.

Claim 12 (New): A composition according to claim 2, wherein the aryloxy radical RO in the aryloxy compound of element M with general formula $M(RO)_{2-n}X_n$ has general formula:



where R₁, R₂, R₃, R₄ and R₅, which may be identical or different, represent a hydrogen atom, a halogen atom or a hydrocarbyl radical containing 1 to 16 carbon atoms.

Claim 13 (New): A composition according to claim 2, wherein the aryloxy compound of element M is bis(2,6-diphenylphenoxy)magnesium, bis(2-tert-butyl-6-phenylphenoxy)magnesium or bis(2,4-di-tert-butyl-6-phenylphenoxy)magnesium.

Claim 14 (New): A composition according to claim 2, wherein the hydrocarbylaluminum compound is dichloroethylaluminum, ethylaluminum sesquichloride, chlorodiethylaluminum, chlorodiisobutylaluminum, triethylaluminum, tripropylaluminum, triisobutylaluminum or methylaluminoxane.

Claim 15 (New): A composition according to claim 12, wherein the hydrocarbylaluminum compound is dichloroethylaluminum, ethylaluminum sesquichloride, chlorodiethylaluminum, chlorodiisobutylaluminum, triethylaluminum, tripropylaluminum, triisobutylaluminum or methylaluminoxane.

Claim 16 (New): A composition according to claim 14, wherein the hydrocarbylaluminum compound is dichloroethylaluminum, ethylaluminum sesquichloride, chlorodiethylaluminum, chlorodiisobutylaluminum, triethylaluminum, tripropylaluminum, triisobutylaluminum or methylaluminoxane.

Claim 17 (New): A composition according to claim 4, wherein the hydrocarbylaluminum compound is triethylaluminum.

Claim 18 (New): A composition according to claim 13, wherein the hydrocarbylaluminum compound is triethylaluminum.

Claim 19 (New): A composition according to claim 2, wherein the components of the catalyst are brought into contact in a solvent comprising at least one saturated hydrocarbon, at least one unsaturated olefinic or diolefinic hydrocarbon and/or at least one aromatic hydrocarbon.

Claim 20 (New): A composition according to claim 18, wherein the components of the catalyst are brought into contact in a solvent comprising at least one saturated hydrocarbon, at least one unsaturated olefinic or diolefinic hydrocarbon and/or at least one aromatic hydrocarbon.

Claim 21 (New): A composition according to claim 19, wherein the chromium concentration in the catalytic solution is in the range 1×10^{-5} to 0.1 mole/l.

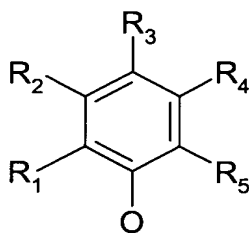
Claim 22 (New): A composition according to claim 20, wherein the chromium concentration in the catalytic solution is in the range 1×10^{-5} to 0.1 mole/l.

Claim 23 (New): A composition according to claim 19, wherein the mole ratio between the aryloxy compound of element M and the chromium compound is 1:1 to 30:1, and the mole ratio between the hydrocarbylaluminum compound and the chromium compound is 1:1 to 35:1.

Claim 24 (New): A composition according to claim 20, wherein the mole ratio between the aryloxy compound of element M and the chromium compound is 1:1 to 30:1, and the mole ratio between the hydrocarbylaluminum compound and the chromium compound is 1:1 to 35:1.

Claim 25 (New): A process according to claim 10, wherein the chromium compound comprises one or more identical or different anions selected from the group consisting of halides, carboxylates, acetylacetonates, alkoxy and aryloxy anions.

Claim 26 (New): A process according to claim 10, wherein the aryloxy radical RO in the aryloxy compound of element M with general formula $M(RO)_{2-n}X_n$ has general formula:



where R₁, R₂, R₃, R₄ and R₅, which may be identical or different, represent a hydrogen atom, a halogen atom or a hydrocarbyl radical containing 1 to 16 carbon atoms.

Claim 27 (New): A process according to claim 10, wherein the aryloxy compound of element M is bis(2,6-diphenylphenoxy)magnesium, bis(2-tert-butyl-6-phenylphenoxy)magnesium or bis(2,4-di-tert-butyl-6-phenylphenoxy)magnesium.

Claim 28 (New): A process according to claim 10, wherein the hydrocarbylaluminum compound is dichloroethylaluminum, ethylaluminum sesquichloride, chlorodiethylaluminum, chlorodiisobutylaluminum, triethylaluminum, tripropylaluminum, triisobutylaluminum or methylaluminoxane.

Claim 29 (New): A process according to claim 10, wherein the hydrocarbylaluminum compound is triethylaluminum.

Claim 30 (New): A process according to claim 10, wherein the chromium concentration in the catalytic solution is in the range 1×10^{-5} to 0.1 mole/l.

Claim 31 (New): A process according to claim 10, wherein the mole ratio between the aryloxy compound of element M and the chromium compound is 1:1 to 30:1, and the mole ratio between the hydrocarbylaluminum compound and the chromium compound is 1:1 to 35:1.

Claim 32 (New): A process according to claim 10, wherein the aryloxy compound of element M is bis(2,6-diphenylphenoxy)magnesium, bis(2-tert-butyl-6-phenylphenoxy)magnesium or bis(2,4-di-tert-butyl-6-phenylphenoxy)magnesium and wherein the hydrocarbylaluminum compound is triethylaluminum.

Claim 33 (New): A process of making the composition of claim 1, comprising first mixing the chromium compound with the aryloxy compound of element M and thereafter adding the hydrocarbylaluminum compound.